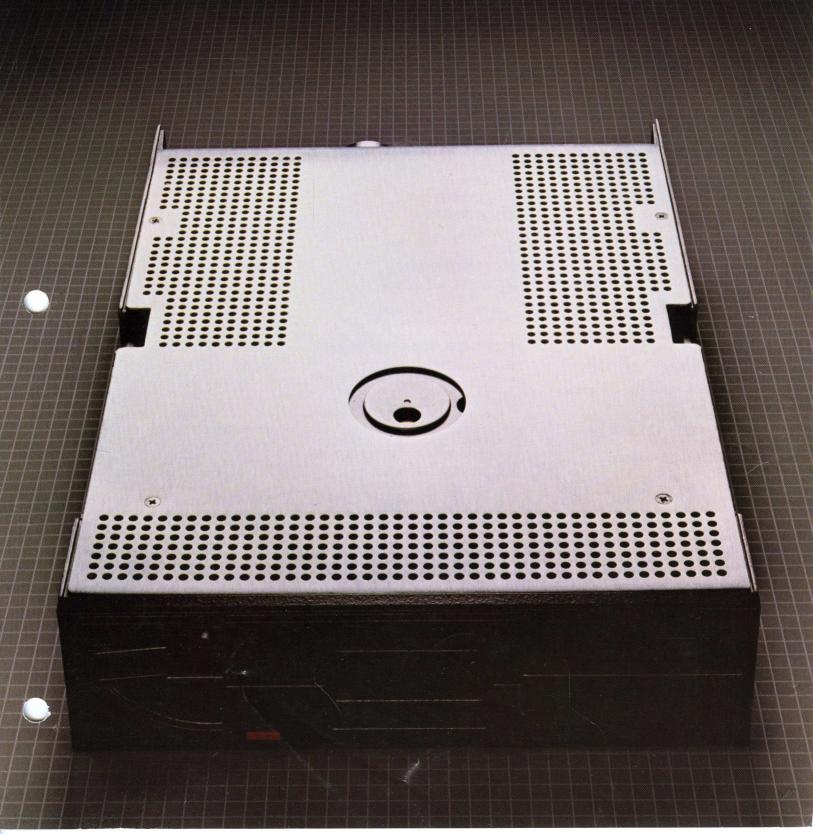
SHUGART SA810/860

Half-Height 8-inch Floppy Disk Drives



SA810/860

DESCRIPTION

Shugart's SA810/860 single- and double-sided floppy disk drives offer a reliable, low-cost solution for data storage applications which require the same high performance of standard 8-inch floppy drives within a greatly reduced space. These half-height drives are ideal in systems designed for the office environment where compact size, quiet operation and high performance are required. Typical applications include small business systems, intelligent terminals, personal computers and program storage equipment.

The SA810/860 drives are half the height of Shugart's industry standard SA801/851 floppy drives, fitting easily within the space confines of a CRT terminal. They require no AC voltage and offer up to 1.6 megabytes of unformatted

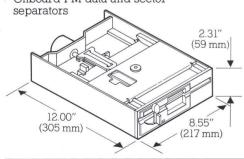
storage capacity.

The SA810/860 incorporate more than 9 years of disk drive manufacturing experience and are backed by the largest and most experienced engineering, sales and service organizations dedicated to the OEM disk drive industry.

KEY FEATURES

- · Compact size—half-height and CRT depth
- · SA801/851 compatibility
- · Low heat dissipation
- · Fast access time-3 ms track to track
- · Low media wear due to low mass Bi-Compliant™ head
- · Rapid start DC drive motor—less than one revolution
- · Write protect and programmable door lock
- TRUE READY—signals when the drive is ready to send or receive data
- · Buffered seek
- · Single or multiple drive DC motor on control

· Onboard FM data and sector



PERFORMANCE SPECIFICATIONS

CAPACITY	SA810 SINGLE/DOUBLE DENSITY	SA860 SINGLE/DOUBLE DENSITY
Unformatted Per Disk Per Surface Per Track IBM Format (128 byte sectors)	400/800 kbytes 400/800 kbytes 5.2/10.4 kbytes	0.8/1.6 Mbytes 400/800 kbytes 5.2/10.4 kbytes
Per Disk Per Surface Per Track	250/500 kbytes 250/500 kbytes 3.3/6.66 kbytes	500/1000 kbytes 250/500 kbytes 3.3/6.66 kbytes
TRANSFER RATE	250/500 kbits/sec	250/500 kbits/sec
LATENCY (avg)	83 msec	83 msec
ACCESS TIME Track to Track Settle Time Average (incl. settling) Motor Start Time	3 msec 13 msec 89 msec 165 msec	3 msec 13 msec 89 msec 165 msec

FUNCTIONAL SPECIFICATIONS

ROTATIONAL SPEED	360 rpm	360 rpm
RECORDING DENSITY (inside track)	3268/6536 bpi	3408/6816 bpi
FLUX DENSITY	6536 fci	6816 fci
TRACK DENSITY	48 tpi	48 tpi
TRACKS	77	154
INDEX	1	1
ENCODING METHOD	FM/MFM	FM/MFM
MEDIA REQUIREMENTS Soft sectored 32 Sector hard sectored Alignment Diskette	SA100/102 SA101/103 SA120	SA150 SA151 SA122

PHYSICAL SPECIFICATIONS

ENVIRONMENTAL LIMITS Ambient Temperature: 50°F to 115°F (10°C to 46.1°C) Relative Humidity: 20% to 80% Maximum Wet Bulb: 85°F (29.4°C)

DC VOLTAGE REQUIREMENTS: $+24.0 \pm 1.2 \text{ V DC}$ @ 1.3 A typical $+5.00 \pm 0.25 \text{ V DC}$ @ 0.8 A typical

MECHANICAL DIMENSIONS (exclusive of faceplate) Height: 2.31 in. (59 mm) Width: 8.55 in. (217 mm) Depth: 12.00 in. (305 mm) Weight: 7 lbs (3 kg)

HEAT DISSIPATION 120 BTU/hr typical (35 watts) 51 BTU/hr standby (15 watts)

RELIABILITY SPECIFICATIONS

MTBF: 10,000 POH under typical usage

PM: SA860-Not required SA810—Load Pad Replacement

MTTR: 30 minutes

COMPONENT LIFE: 5 years

ERROR RATES:

Soft Read Errors: 1 per 109 bits read Hard Read Errors: 1 per 10¹² bits read Seek Errors: 1 per 10⁶ seeks

MEDIA LIFE:

Passes per Track: 3.5×10^6 Insertions: 30,000 +

SALES/SERVICE:

West: Milpitas, CA (408) 263-2600 Costa Mesa, CA (714) 979-1935 Thousand Oaks, CA (805) 496-5388

Central: Richardson, TX (214) 234-3568 Minneapolis, MN (612) 574-9750

Framingham, MA (617) 879-1700 Saddle Brook, NJ (201) 368-8445 Atlanta, GA (404) 955-8968

Eastern Canada: Markham, Ontario (416) 495-2655

Europe: Paris: Phone (1) 686-00-85 Munich: Phone (089) 80-60-55 Headquarters: 475 Oakmead Parkway Sunnyvale, CA 94086 Phone (408) 733-0100 TWX: 910-339-9355 SHUGART SUVL

Right from the start.